

## INTERNATIONAL SEARCH REPORT

International Application No.

IB 03/05106

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06F11/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, IBM-TDB, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X  A	EP 0 307 958 B (OKI ELECTRIC IND CO LTD) 22 March 1989 (1989-03-22)  column 1, line 6 -column 1, line 15 column 2, line 41 -column 3, line 48 column 7, line 2 -column 7, line 10 column 7, line 51 -column 9, line 44 figure 7	1,2, 8-13,19, 25 3-7, 14-18, 20-24
A	US 6 151 246 A (SO HOCK C ET AL) 21 November 2000 (2000-11-21) column 2, line 13 -column 3, line 22 column 9, line 33 -column 9, line 47 column 10, line 52 -column 11, line 67  -/-	1-25

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&amp;" document member of the same patent family

Date of the actual completion of the international search

23 March 2004

Date of mailing of the international search report

30/03/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Johansson, U

## INTERNATIONAL SEARCH REPORT

International Application No

IB 03/05106

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 112 314 A (CHEVALLIER CHRISTOPHE J ET AL) 29 August 2000 (2000-08-29) column 1, line 36 -column 2, line 29 column 3, line 12 -column 4, line 9 column 5, line 15 -column 6, line 62	1-25
A	WO 02 086719 A (KONINKL PHILIPS ELECTRONICS NV) 31 October 2002 (2002-10-31) page 5, line 31 -page 6, line 35 page 9, line 1 -page 10, line 10 claims 1,6,7	1-25

# INTERNATIONAL SEARCH REPORT

Information on patent family members

onal Application No

/IB 03/05106

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0307958	B	22-03-1989	JP 1076596 A	22-03-1989
			DE 3877475 D1	25-02-1993
			DE 3877475 T2	12-08-1993
			EP 0307958 A2	22-03-1989
			HK 1001481 A1	19-06-1998
			US 4967415 A	30-10-1990
			US 5052002 A	24-09-1991
US 6151246	A	21-11-2000	US 5909449 A	01-06-1999
			US 2003021149 A1	30-01-2003
			US 6307776 B1	23-10-2001
			EP 0911833 A2	28-04-1999
			JP 11154394 A	08-06-1999
US 6112314	A	29-08-2000	US 5771346 A	23-06-1998
			US 6601191 B1	29-07-2003
WO 02086719	A	31-10-2002	WO 02086719 A2	31-10-2002
			US 2003046631 A1	06-03-2003

BEST AVAILABLE COPY